



Nuclear Regulatory Commission

Waste Incidental to Reprocessing Activities at the Savannah River Site

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Introduction

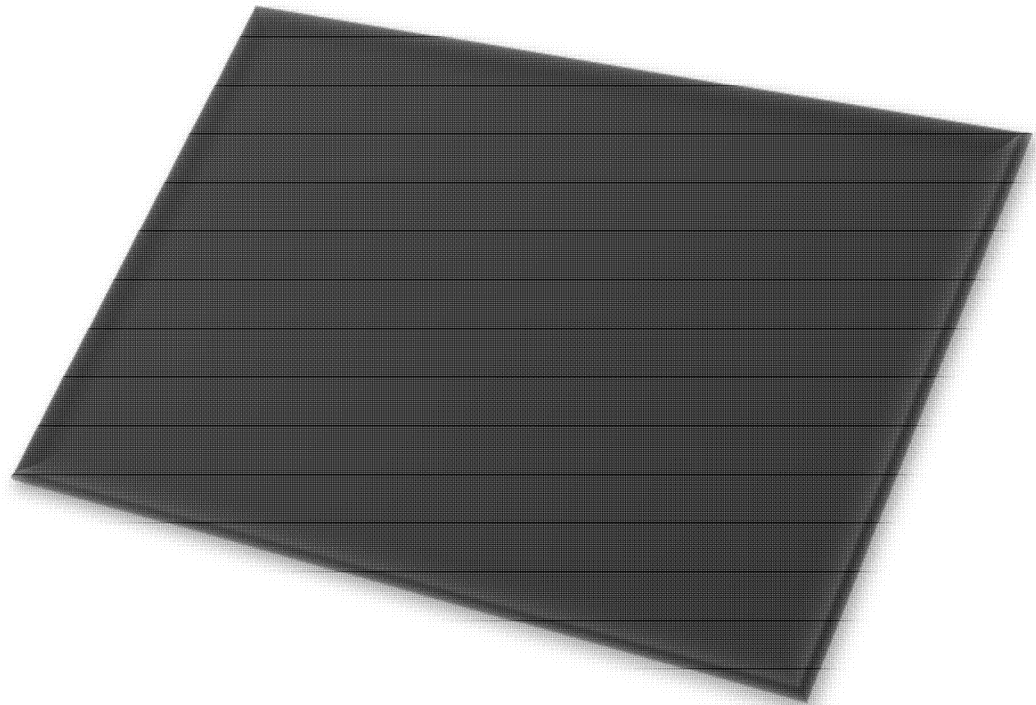
Common Phrases

- NDAA – Consultation and Monitoring
- Scoping
- Performance Assessment (PA)
- Waste Determination (WD)
- Technical Evaluation Report (TER)
- Observation

Overview

NRC NDAA Activities at the Savannah River Site

- Saltstone Facility
- F-Tank Farm
- H-Tank Farm
- Future Plans



Saltstone Facility

2009 NDAA Monitoring

- Calendar Year 2009 Activities
 - Completed 3 onsite observations
 - Completed 6 technical reviews
 - Began review of 2009 Saltstone Performance Assessment (PA)
- Results
 - Started Year with 2 Open Issues
 - Identified One New Open Issue

Saltstone Facility

Recent NDAA Monitoring Activities

- Calendar Year 2010 Activities
 - February 2010
 - April 2010
 - July 2010 (occurring tomorrow)
- Continuing review of 2009 Saltstone PA
 - Review documented in a publicly available Technical Evaluation Report

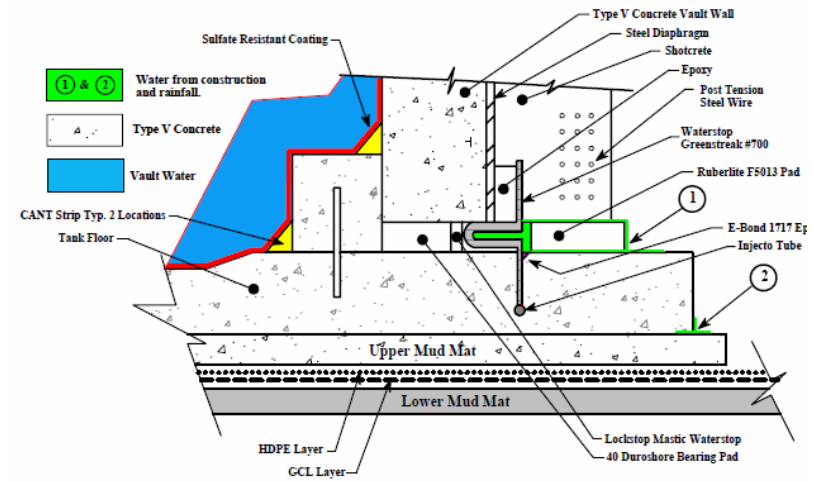
Saltstone Facility

Recent NDAA Monitoring Activities (cont.)

- Hydro-test performed on cells
 - Damp spots observed on outside of cells
 - Red fluorescent dye added and pink and/or fluorescent spots were observed
- NRC staff is monitoring effect on vault performance assumptions in the performance assessment

Saltstone Facility

Recent NDAA Monitoring Activities (cont.)



Saltstone Facility

NRC Review of 2009 Saltstone PA

- NRC issued a Request for Additional Information (RAI) in April 2010
 - Hydrologic properties of saltstone wasteform and vaults
 - Oxidation state of Tc in the saltstone
 - Degradation mechanisms of the saltstone and vaults
- Response from DOE expected in August 2010
- NRC review to be completed by November 2010

F-Tank Farm

NRC Consultation Activities

- DOE Draft Performance Assessment
 - NRC Staff reviewed PA in 2008 and provided comments
 - Major themes: Lack of support for key modeling assumptions, conceptual models, and uncertainty analysis parameters
 - Revised DOE PA submitted to NRC in May 2010
 - NRC begin review of DOE PA in September 2010

F-Tank Farm

NRC Consultation Activities

- DOE Draft Waste Determination
 - Public scoping meeting on July 13-14, 2010
 - DOE submits its WD in October 2010
 - NRC submits RAI in December 2010
 - NRC's Final TER approximately May 2011

H-Tank Farm

NRC Consultation Activities

- Scoping Process
 - Meeting with NRC/DOE/EPA/SCDHEC meeting held April 2010
 - Only items unique to H-Tank Farm covered (e.g., several H-farm tanks are submerged in the aquifer)
- Performance Assessment
 - To be submitted to NRC around 3rd Qtr 2011

Future Plans

NRC NDAA Activities at the Savannah River Site

- Continued NRC interaction with CAB
- Conduct an NRC/DOE Lessons Learned Public Meeting
- Update the NRC monitoring plan and other activities for Saltstone
- Participation in consultation activities as for F and H Tank Farms, as needed